

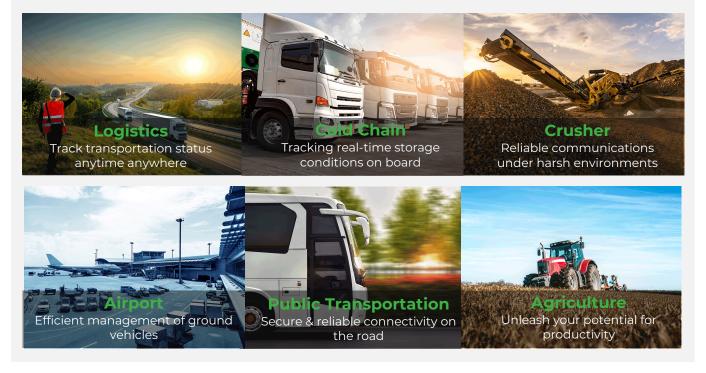
Anytime, anywhere sense your vehicle.

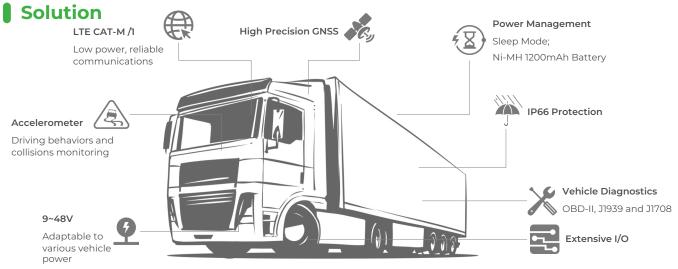
# **InVehicle T320 Series**

**Vehicle Telematics** 



The Vehicle Telematics320 (VT320) is a robust tracking device designed for harsh environments. It combines LTE and GNSS for real-time location tracking, with 3D gyroscope. VT320 with multiple I/O interfaces, it can remotely monitor vehicle peripherals and supports standard protocols like OBD-II, J1939, and J1708 for operational insights and preventive maintenance. Its IP66 protection ensures durability, while low power consumption makes it ideal for extensive use by fleet managers to enhance safety and efficiency.





## Features and Advantages



#### High Performance Asset Tracking Gateway

Equipped with LTE CAT M1 and CAT1, the VT320 offers dependable, energy-efficient connectivity. Its integrated GNSS module and inertial navigation enable precise, real-time location tracking, while the onboard gyroscope monitors driving behavior to enhance road safety.



## Extensive Interfaces, Better Integration with Vehicles

Built with dual CAN Bus, the VT320 is perfect for vehicles like heavy equipment. It supports common vehicle diagnostic protocols such as ODB-II J1939 and J1708. Extensive interfaces including serial ports, I/O, Bluetooth, I-Wire.



#### Multiple IoT Cloud Services Supported

AWS, Azure, Wialon , ThingsBoard, MQTT Cloud, Customer Private Cloud, etc.



#### Continuous and Reliable Operation

Cache which over 30K location records, freeing you from concerns about data loss when Internet connection is unavailable.



#### Purpose Designed for Vehicles

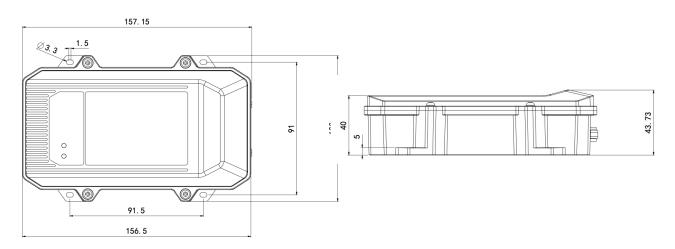
The VT320, with IP66 rating, works across a 9~48V power range and continues to operate on its 1200mAh battery in offvehicle mode, within a -40~85° C temperature range.



#### • Easy for Installation

With built-in cellular and GNSS antennas, the VT320 is easy for installation and deployment on the road.

## Dimensions (mm)



Dimensions: 157.15\*100\*43.73 (mm)



## Product Specifications

InVehicle T320 Hardware Specifications				
Network Type				
Cellular	LTE CAT M			
Antenna Interface	LTE FPC built-in antenna			
, when the meetings	Ceramic built-in antenna ( GNSS Bluetooth antenna )			
GNSS (Global Navigation Satellite System)				
Satellite Support	GPS Galileo Beidou GLONASS			
Channel	72 channels			
Sensitivity	-167 dBm, initial positioning time 26s			
Tracking Sensitivity	-157 dBm (Hot start); -148 dBm (Cold start)			
Location Accuracy	2.5m (CEP50)			
Update Frequency	0.25 Hz ~ 10 MHz Configurable			
Intertia Sensor				
Acceleration	Measurement range: $\pm 2/\pm 4/\pm 8/\pm 16g$			
Angular Velocity	Measurement range: ±125 / ±250 / ±500 / ±1000 / ±2000dps			
Bluetooth				
Version	Bluetooth 4.1			
Environment				
Operating Temperature	40° C to 85° C			
Humidity	95% RH @ 50 ℃ non-condensing			
ESD	IEC 61000-4-2 (4KV test)			
Working Voltage	9-48V DC			
Battery Parameter Capacity	1200mAh			
Battery Material	Ni-MH			
Working Temperature	Charging: 0 ~ 45 °C; Discharging: -40 ~ 85 °C			
Storage Temperature	For 1 month: -40 °C ~ 55 °C; For 1 year : - 40 ~ 35 °C			
Mechanical Features				
Shell Material	Engineering plastic+engineering plastic alloy (PC+ABS)			
Dimensions & Weight	Approximately 158 x 100 x 44 mm			
Protection Rating	IP66			
Software Service				
Cloud platform	AWS IoT, Azure IoT, Aliyun IoT, Wialon, Traccar, GPSWOX, WhiteLabel Tracking, Thingsboard, customer platform			
Transport Protocol	TCP, UDP HTTP, MQTT			
Vehicle Data	OBDII, J1939, J1979, J1708			
RS232/RS485	Transparent, Modbus protocol data acquisition			
Event Alarm	Collision detection、Motion detection、Overspeed、IO change、ignition signal detection etc.  Report support SMS or FlexAPI over TCP/UDP/MQTT			
ELD	Forward vehicle data via BLE			
Certification				
Certification	FCC, IC, PTCRB, VZW, ATT, T-Mobile			
Warranty	3 years			



## Ordering Guide

 Model code:
 VT320-<WMNN>

 Model

 WMNN>:
 Type & Module

VT320-FQ02

LTE Cat M1: LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/ B14/B18/B19/ B20/B25/B26/B27/ B28/B66/B85

### **Accessories**

Cable	Order Code	Diagram	Specifications
ODB 16PIN Test Cable	SCAB000399		OBD 16PIN interface test line, Cable standard UL2464,wire length 1500mm
26 PIN Cable	SCAB000370		The cable has P1 and P2 ends: P1 is 26PIN female, connected to VT320; P2 is open end, which requires a 9-48V adaptor. Suitable for engineering environments and indoor tests.
J1939 6PIN Test Cable	SCAB000409		J1939 6PIN interface test line, Cable standard UL2464, wire length 1500mm
J1939 9PIN Test Cable	SCAB000410		J1939 9PIN interface test line, Cable standard UL2464, wire length 1500mm
Quick terminal - 3in3out	ECON060255		Rated voltage 600V, rated current 30A, 40*18.6*14.5mm、Flame retardant grade V0.
EU Power adapter 12V/2A	APWR000121		Switching power supply - 12V/2A - round connector – vertical (European standard) - DC line length 1.5M Office test use.
US Power adapter 12V/2A	APWR000122		Switching power supply - 12V/2A - round connector vertical (US standard) - DC line length 1.5M Office test use.

#### **About Us**

InHand Networks is a leading IoT solutions provider founded in 2001, dedicated to driving digital transformation across industries and empowering customers to unlock their full potential and achieve accelerated growth.

We specialize in delivering industrial-grade connectivity solutions for diverse sectors, such as enterprise networks, industrial and building IoT, digital energy, smart commerce, and mobility. Our comprehensive product portfolio and services cater to various applications worldwide, including smart manufacturing, smart grid, intelligent transportation, smart retail, etc. With a global footprint spanning over 60 countries, we serve customers in China, the United States, France, Germany, the United Kingdom, Italy, and beyond.



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